

Data sheet



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Order dated:
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Item no.:100
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Multitec A 125/ 4-10.2 15.67

Version no.: 1

Operating data

Requested flow rate	330.00 m³/h	Actual flow rate	330.00 m³/h
Requested developed head	340.00 m	Actual developed head	340.05 m
Pumped medium	Water	Efficiency	81.7 %
Solids content Max. 20 ppm		Power absorbed	374.36 kW
	Clean water	Pump speed of rotation	2982 rpm
	Materials are not affected by chemical and mech. substances	NPSH required	6.98 m
Fluid temperature	20.0 °C	Permissible operating pressure	63.00 bar.g
Fluid density	998 kg/m³	Discharge press.	33.28 bar.g
Fluid viscosity	1.00 mm²/s	Shutoff pressure	42.27 bar.g
Suction pressure max.	0.00 bar.g	Min. allow. mass flow rate	34.54 kg/s
Suction pressure min.	0.00 bar.g	Shutoff head	431.94 m
NPSH available	9.98 m	Max. allow. flow rate	409.63 m³/h
Vapour pressure	0.02 bar.a	Design	Single system 1 x 100 %
Mass flow rate	91.48 kg/s	Performance test	No
Max. power on curve	402.07 kW	Acceptance standard	None; tolerances to ISO 9906 Class 2 Annex A
Min. allow. flow rate	124.58 m³/h		

Design

Variant	A	Sealing plan	E Single acting mechanical (external circulation)
Stage number	4	Pumped liquid without abrasive solids	
Balance drum	with piston	Seal chamber design	Standard seal chamber
Design	Baseplate mounted, long-coupled	Calculated for inlet pressure	0.00 bar.g
Orientation	Horizontal	Wear ring	Casing wear ring
Suction nominal dia.	DN 200	Impeller diameter	264.0 / 299.0 mm
Suction nominal pressure	PN 25	Minimum impeller diameter	243.0 mm
Suction position	axial	Full impeller diameter	270.0 mm
Connection standard suction	EN 1092-1	Free passage size	20.0 mm
Discharge nominal dia.	DN 125	Direction of rotation from drive	Clockwise
Discharge nominal pressure	PN 63	Bearing bracket construction	Standard (normal)
Discharge position	top (0°/360°)	Bearing bracket size	125
	Viewed from the drive	Bearing seal	V ring
Connection standard discharge	EN 1092-1	Bearing type	Anti-friction bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Grease
Manufacturer	Burgmann	Bearing type (inboard)	Plain bearings
Type	H7N	Lubrication type (inboard)	Medium lubricated
Material code	Q1BE4GG	Temperature sensor PT100	Without
Shaft seal code	67	mts	
		Color	Ultramarine blue (RAL 5002) KSB-blue

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Driver, accessories

Manufacturer	Flender	Frequency	50 Hz
Coupling type	Eupex N	Operating voltage	400 V
Nominal size	225	Rated power P2	500.00 kW
Coupling guard type	Lightweight, not treadproof (ZN79)	Rated current	820.0 A
Guard size	H254	Starting current ratio	6.5
Guard material	Galvanised steel ST TZN	Insulation class	F to IEC 34-1
Baseplate type	Steel baseplate for Multitec	Motor enclosure	IP55
Baseplate size	GP35	Cos phi at 4/4 load	0.91
Driver type	Electric motor	Temperature sensor	6 PTC resistors
Model (make)	Siemens	Terminal box position	45°
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Motor winding	Viewed from the drive
Motor const. type	B3	Number of poles	400 / 690 V
Motor size	355	Connection mode	2
		Motor cooling method	Delta
		Motor material	Surface cooling
			Grey cast iron GG/CAST IRON

Materials 15

Notes	Bearing cartridge (381)	Ceramic SSiC
Ammonium (NH4+) <= 2 mg/kg, free of H2S; Chlorine (Cl2) <=0.6 mg/kg.	O-Ring (412)	EPDM 80
general criteria for a water analysis: pH-value >= 7; chloride content (Cl) <=250 mg/kg. chlorine (Cl2) <=0.6 mg/kg.	Shaft seal housing (441)	Grey cast iron JL 1040
Suction casing (106)	Casing wear ring (502.1)	GX120CRMO29-2 1.4138
Discharge casing (107)	Casing wear ring (502.2)	GX120CRMO29-2 1.4138
Stage casing (108)	Shaft sleeve (523)	Chrome steel 1.4057+QT800
Diffuser (171)	Bearing sleeve (529)	Ceramic SSiC
Shaft (210)	Bush (540)	Grey cast iron JL 1040
Impeller (230)	Piston (59-4)	Chrome steel
Impeller, suction stage (231)	Tie bolt (905)	1.4021QT700+SR
Bearing housing (350)		30NCD16

Performance curve



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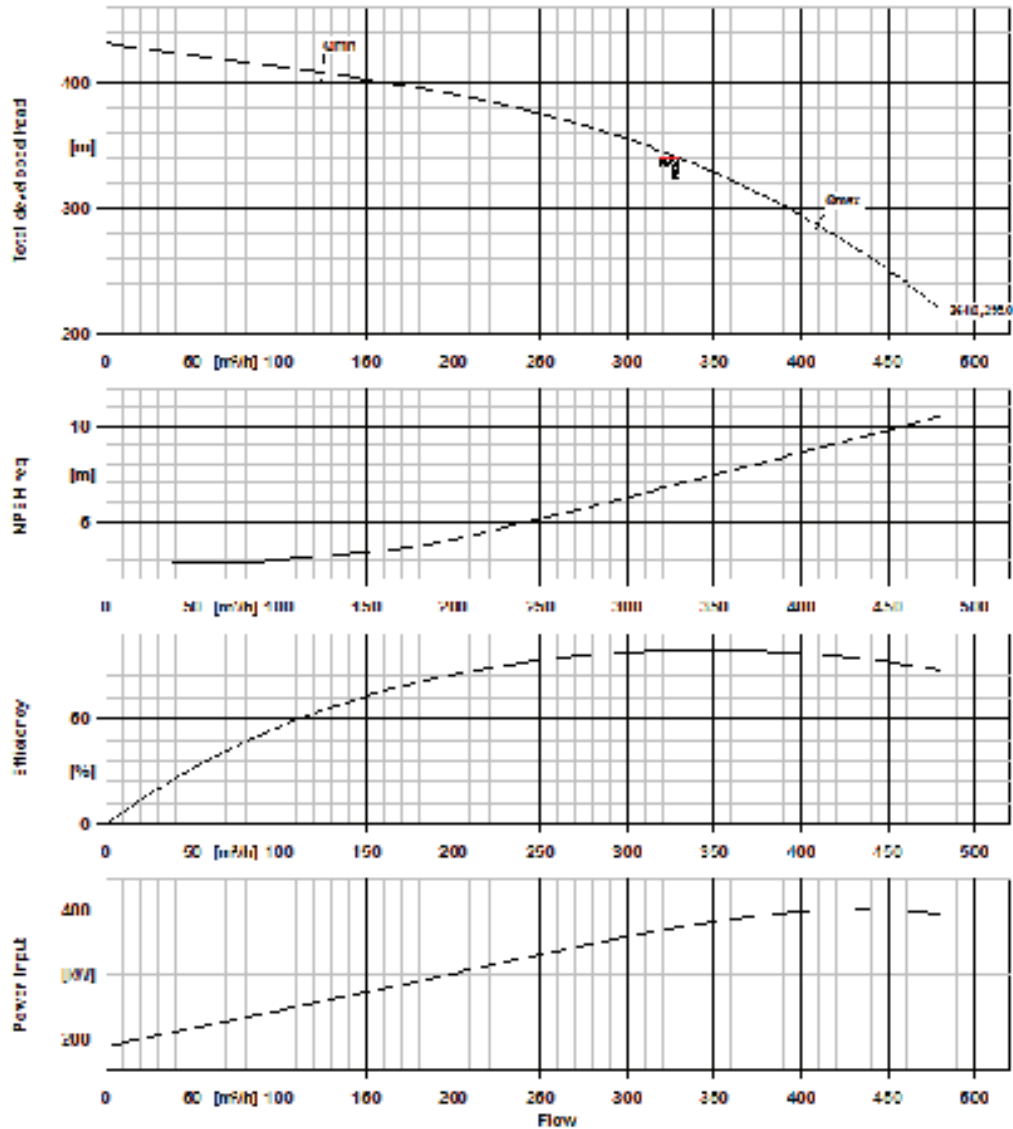
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Curve data

Speed of rotation	2982 rpm	Efficiency	81.7 %
Fluid density	998 kg/m³	Power absorbed	374.36 kW
Viscosity	1.00 mm²/s	NPSH required	6.98 m
Flow rate	330.00 m³/h	Curve number	3 * 1777.407521/11 GG 1 *
Requested flow rate	330.00 m³/h		1777.407521/10 GG
Total developed head	340.05 m	Impeller diameter	264.0 / 299.0 mm
Requested developed head	340.00 m	Acceptance standard	None; tolerances to ISO 9906 Class 2 Annex A

Installation plan

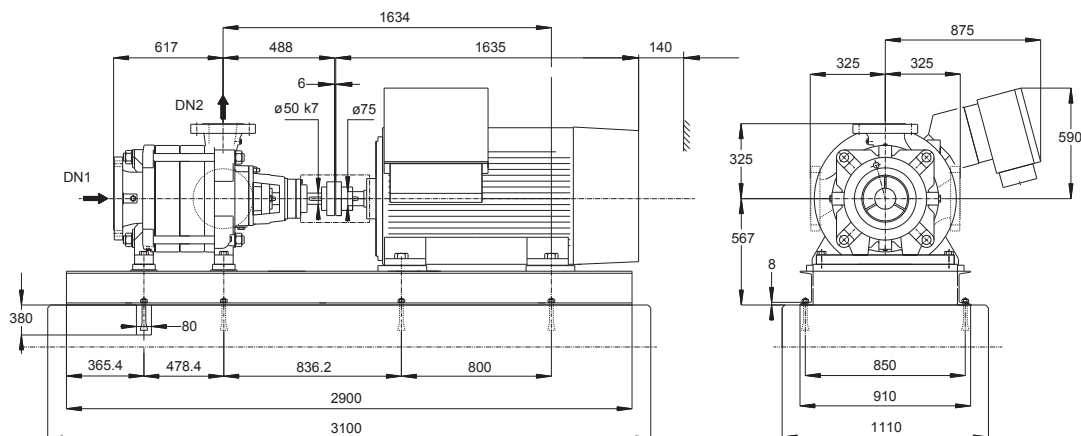


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Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	Siemens
Motor size	355
Motor power	500.00 kW
Number of poles	2
Speed of rotation	2982 rpm
Position of terminal box	45°
	Viewed from the drive

Baseplate

Design	Steel baseplate for Multitec
Size	GP35
Material	
Leakage drain, baseplate	Without
Rp1	
Foundation bolts	M20x320 (Not in scope of supply)

Connections

Suction nominal size DN1	DN 200 / EN 1092-1
Discharge nominal size DN2	DN 125 / EN 1092-1
Nominal pressure suct.	PN 25
Rated pressure disch.	PN 63

Coupling

Coupling manufacturer	Flender
Coupling type	EupeX N
Coupling size	225
Spacer	0.0 mm

Weight net

Pump	451 kg
Baseplate	427 kg
Coupling	27 kg
Coupling guard	3 kg
Motor	2200 kg
Total	3108 kg

Connect pipes without stress or strain!

Dimensional tolerances for shaft axis height:
Dimensions without tolerances, middle tolerances to:
Connection dimensions for pumps:
Dimensions without tolerances - welded parts:
Dimensions without tolerances - gray cast iron parts:

DIN 747
ISO 2768-m
EN735
ISO 13920-B
ISO 8062-CT9

For auxiliary connections see separate drawing.